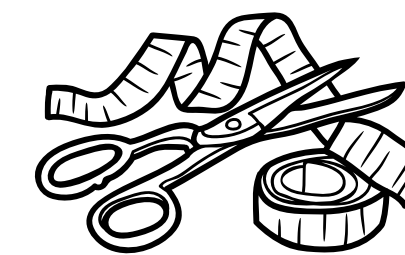




DT- Year 5/6 Spring Cycle B -Construction

Viking Longship

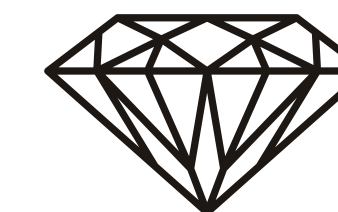


What do I already know? I know how to make a Roman shield, a Miners lamp and an Egyptian pulleys by:

- know how to measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.
- use a range of techniques to shape mouldable materials (papier Mache and salt dough)
- use safe ways of cutting materials including a junior hacksaw
- apply their understanding of how to strengthen, stiffen and reinforce more complex structures (joining, folding, layering/corrugated, shape and own ideas)
- start to consider how materials have both functional properties and aesthetic qualities, and chose the most appropriate material for the project



I will know how to design and make a Viking Longship that is historically accurate and floats by:



- Ensuring that my product is strong and fit for the purpose (shape, bracing and own ideas)
- Developing skills in nailing, drilling and sawing to create a product
- Ensure that materials chosen have both functional properties and aesthetic qualities;
- Justify why I have chosen a specific material
- Apply MY understanding of computing to program, monitor and control a product.

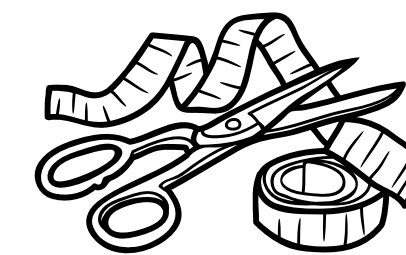
Key Vocabulary:

<u>aesthetic</u>		Aesthetic is used to talk about beauty or art, and people's appreciation of beautiful things.	<u>bracing</u>		(of a support) serving to <u>brace</u> a structure.
<u>functional</u>		designed to be practical and useful, rather than attractive.	<u>sanding</u>		smooth or polish with <u>sandpaper</u> or a mechanical <u>sander</u>
<u>suitability</u>		the quality of being right or appropriate for a particular person, purpose, or situation.	<u>combine</u>		join or merge to form a single unit or substance
<u>mark out</u>		separate or delineate a particular section or area	<u>component</u>		a part or element of a larger whole, especially a part of a machine or vehicle.



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Viking Longship



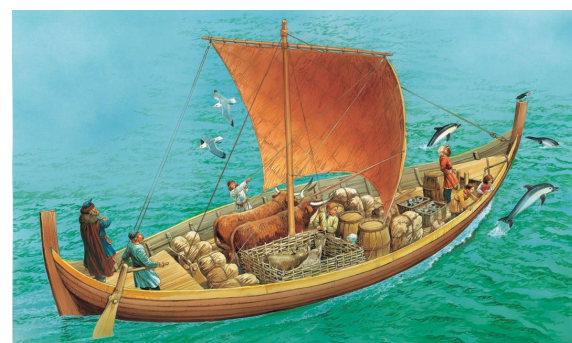
Designer/Craftsmen - Viking longship



Viking Long Ship

Vikings used longships to make raids and carry their warriors. Often, the prow (front) of the ship was decorated with a carving of an animal head – perhaps a dragon or a snake. Cargo vessels were used to carry trade goods and possessions. They were wider than the longships and travelled more slowly.

Cargo Longship

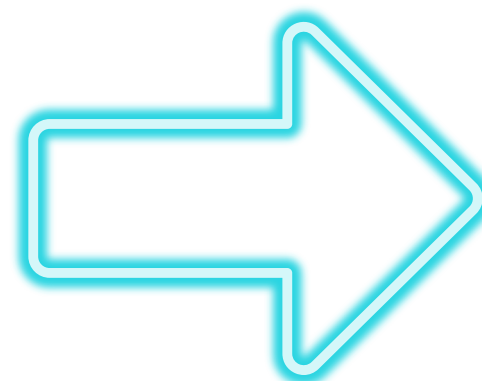
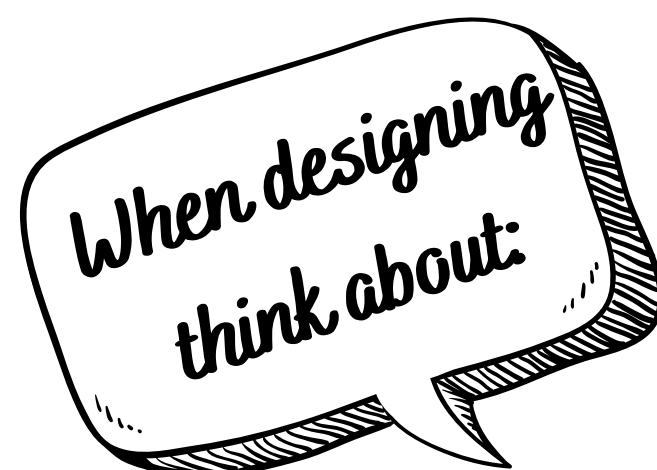


Warrior Longship



Facts about longships

Longships relied on timber as a natural resource for construction and many different types were used in the building process. Oak was a popular choice for the more important vessels due to its durability, pliability and strength when wet or unseasoned. All longships consisted of a keel, stems and a hull. A keel is the base of ship that runs along a centreline on which a hull is built. The stem is the main upright timber of a ship's bow, from which the ship's sides are attached.



- User - who is the product for?
- Purpose - what task does the product need to perform?
- Functionality - will it work?
- Design Decisions - what choices do you have?
- Authenticity - is the product believable?

